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TITLE : TRANSPARENT CONDUCTIVE FILM AND DISPLAY DEVICE

ABSTRACT : PROBLEM TO BE SOLVED: To improve the visible ray average transmittance of a film and to obtain electromagnetic wave shielding effect and electrification preventing effect by providing a conductive layer that is formed by applying a paint, where the chain-shaped aggregate of a metal fine particle is dispersed.

SOLUTION: In the chain-shaped aggregate of metal fine particles, a plurality of metal fine particles are connected in a chain, and the average length of the chain is preferably in the range 5 nm-200 nm in terms of conductivity and transparency. By applying a paint containing the chain-shaped aggregate onto a base and baking it after drying for forming a film, the contact electrical resistance between particles can be minimized, thus obtaining high conductivity, regardless of whether the conductive layer is a thin film and hence obtaining a transparent conductive film that has not only improved electrification preventing effect/electromagnetic shielding effect but also high transparency.

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